| I. Number | Hits | Search Text | DB | Time stamp |
|-----------|---------------|--|--------------------|------------------|
| 1 | 25 | (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and (face or facial or head) same (color with (gradient or gradation or change or sobel) with (low\$2 or less\$2 or smaller or unchang\$3 or below or under or threshold\$3 or smooth | USPAT; US-PGPUB | 2003/10/08 15:33 |
| ı | 72 | | USPAT; US-PGPUB | 2003/10/03 11:42 |
| ı | 10 | Of SHOOLDLY)) (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and (face or facial) and (face or facial or head or area or region or pixels! or portion) same (color para gradient) same (intensity or printpuss or luminance) | USPAT; US-PGPUB | 2003/10/03 11:26 |
| ı | 09 | | USPAT; US-PGPUB | 2003/10/03 11:41 |
| 1 | on The second | ((human or person\$3 or recogni\$4 identif\$7) near face or facial) and (face or facial or head or area or region or pixels! or portion) same (gradient with (low\$2 or less\$2 or smaller or unchang\$3 or below or under or smooth or smoothly)) same ((intensity or brightness or luminance) with (above or brightness) | USPAT; US-PGPUB | 2003/10/03 15:18 |
| ı | 10 | ((human or person\$3 or recogni\$4 or identify\$3 or identification) near face or facial) and (gradient with (low\$2 or less\$2 or smaller or unchang\$3 or below or under or smooth or smoothly)) same ((intensity or brights) or luminance) with (above or high\$3 or large\$1 or greater or brights) | USPAT; US-PGPUB | 2003/10/03 11:52 |
| 1 | 453 | r r r | USPAT; US-PGPUB | 2003/10/03 11:53 |
| ı | 29 | | USPAT; US-PGPUB | 2003/10/03 16:05 |
| I | 290 | wit or wit | USPAT; US-PGPUB | 2003/10/03 15:20 |
| 1 | 08 | (382/\$:ccls. or 348/\$:ccls.) and (facial or region (382/\$:ccls. or 340/\$:ccls.) and (facial or area or region or pixels! or portion or window or mask) same (gradient with (low\$2 or less\$2 or smaller or unchang\$3 or below or under or smooth or smoothly)) same ((intensity or brightness or luminance) with (above or high\$3 or luminance) or increases. | USPAT; US-PGPUB | 2003/10/06 14:28 |
| 1 | 544 | | USPAT; US-PGPUB | 2003/10/03 15:23 |
| 1 | 83 | ccls. or 348/34 or identifity or brights? | USPAT; US-PGPUB | 2003/10/03 15:30 |
| ı | 425 | cls. or 348, 44 or identifume ((gradier | USPAT; US-PGPUB | 2003/10/04 13:16 |

| 1 | 53 | (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and ((human or person\$3 or recogni\$4 or identify\$3 or identification) near face or facial or head or skin) same (area or region or nivels! or nortion or window or mask or | USPAT; US-PGPUB | 2003/10/03 16:12 |
|---|-----|--|--------------------|------------------|
| | | | | |
| ı | 51 | ccls. or 340/ ccls. or 340/ or portion or smoothness or white) with | USPAT; US-PGPUB | 2003/10/06 14:47 |
| 1 | 42 | \$.ccls. or y\$3 or ider or portion y or smoothe or white) | USPAT; US-PGPUB | 2003/10/06 16:33 |
| 1 | 34 | or person\$3 or re facial) or area for smooth or sm y or bright\$4 or | USPAT; US-PGPUB | 2003/10/06 16:46 |
| ı | 12 | (thuman or persons) or recognist or identifys3 or identification or (cats) or tracking or extracts) with (face or facial or area or region or pixels! or window)) same (gradient or chang\$3 or gradation) with (smooth or smoothly or smoothness or uniform\$3) same ((high\$3 or large\$2 or preat\$3 or bright\$3 or increased or maximum or white) near2 (intensity or brightpass or luminance) | USPAT; US-PGPUB | 2003/10/06 16:52 |
| 1 | m | inguiness tat\$3 or tra pixels! or variance) w small\$2 or small\$2 or ir luminance)! | USPAT; US-PGPUB | 2003/10/06 17:06 |
| 1 | 168 | ((human or person\$3 or recogni\$4 or identify\$3 or identification or ((human or person\$3 or extract\$3) with (face or facial or area or region or pixels! or window)) same (gradient or chang\$3 or gradation or variation or variance) with (smooth or smoothly or smoothness or uniform\$3 or low\$2 or small\$2 or less\$2 or unchang\$3 or flat) same ((high\$3 or large\$2 or pright\$3 or increased or maximum or white) near2 (intensity or hightses or luminance) | USPAT; US-PGPUB | 2003/10/06 17:19 |
| 1 | 0 4 | | USPAT; US-PGPUB | 2003/10/06 17:23 |

| recognis4 or identify3 or identification or locat\$3 or tracking or extract\$3) with (face or facial or area or region or pixels! or window)) same (gradient or gradation or smooth or smoothness or unchang\$3 or flat) same (high\$3 or large\$3 or great\$3 or bright\$3 or increased or maximum or white) near2 (intensity or brightness or luminance or density)) bright\$3 or increased or maximum or white) near2 (intensity or brightness or luminance or density)) same (grad\$5 or (color near (rate or chang\$3)) or smooth\$2 or sobel) with (threshold\$3 or normali\$6) 382/103,115,118,164,165,190,199,203,274,276.ccls. and (face or facial) same (grad\$5 or (color near (rate or chang\$3)) or smooth\$2 or sobel) with (threshold\$3 or normali\$6) 382/103,115,118,164,165,190,199,203,274,276.ccls. and (face or facial) and (grad\$6 or (color near (rate or chang\$3)) or smooth\$2 or sobel) with (threshold\$3 or normali\$6) or (rate near chang\$3) or smooth\$2 or sobel) with (threshold\$3 or normali\$6) 382/103,115,118,164,165,190,199,203,274,276.ccls. and (face or facial) and (grad\$6 near5 (rate or chang\$3)) with (threshold\$3 or normali\$6) 382/103,115,118,164,165,190,199,203,274,276.ccls. and (face or facial) and (grad\$6 near5 (rate or chang\$3)) with (threshold\$3 or normali\$6) 382/103,115,118,164,165,190,199,203,274,276.ccls. and (face or facial) and (grad\$6 near5 (rate or chang\$3)) with (threshold\$3 or normali\$6) 380/5,52,52,553,5.8-5.83.ccls. and (face or facial) same (candidate or saturation or sobel) with (threshold\$3 or normali\$6) 380/5,52,52,52,52,52,52,52,52,52,52,52,52,52 | | | |
|---|--|----------|------------------|
| uniform\$3 or unchang\$3 or flat) same (high\$3 or right\$3 or unchang\$3 or flat) same ((high\$3 or right\$3 or increased or maximum or white) near to luminance or density)) 82/103,115,118,164,165,190,199,203,274,276.ccls 82/103,115,118,164,165,190,199,203,274,276.ccl (grad\$5 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) 82/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) 82/103,115,118,164,165,190,274,276.ccls. and (sard\$6 or (color near (rate or chang\$3)) or sm (grad\$6 near chang\$3) or smooth\$2 or sobel) winormali\$6) 82/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 near chang\$3) or smooth\$2 or sobel) with (thresholdsad\$6 near (rate or chang\$3)) or sm 82/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 near (rate or chang\$3)) with (thresholdsad\$6 near (rate or chang\$3)) or smooth\$2 or sobel) with (thresholdsad\$100 or sobel or threshold or normali\$6 or normali\$6 saturation or sobel or threshold or normali\$6 or n | or identification or locat\$3 or tracking or facial or area or region or pixels! or window)) | US-PGPUB | |
| rights or increased or maximum or white) near trights or increased or maximum or white) near trights or increased or maximum or white) near (ar luminance or increased or maximum or white) near (ar luminance or color near (rate or chang\$3)) (threshold\$3 or normali\$6) (382/\$.ccls. or 348/\$.ccls. or 348/\$.ccls. or 348/\$.ccls. or san(grad\$5 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) (grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) (are or chang\$3)) or sm (threshold\$3 or normali\$6) (are chang\$3) or smooth\$2 or sobel) winormali\$6) (are chang\$3) or smooth\$2 or sobel) winormali\$6) (are chang\$3) or smooth\$2 or sobel) with (threshold\$115,118,164,165,190,199,203,274,276.ccl (grad\$6 near\$7 (rate or chang\$3)) with (threshold\$105,52,5.53,5.8-5.83.ccls. and (face or facia gradient or gradation or intesity or smooth\$4 or saturation or sobel or threshold or normali\$6 or normali\$6 or morph\$3 or morphologic\$2 or ellipse or oval or (archive) or 348/\$.ccls. or 340/\$.ccls.) and (face or oval or corpus) or shorth\$3 or morphologic\$2 or ellipse or oval or (archive) or 348/\$.ccls. or 340/\$.ccls.) and (face or oval or corpus) or shorth\$3 or shorth\$2 or shorth\$3 or | othly or smoothness or | | |
| luminance or density)) 82/103,115,118,164,165,190,199,203,274,276.ccl same (grad\$5 or (color near (rate or chang\$3)) (threshold\$3 or normali\$6) (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and (grad\$5 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) 82/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) 82/103,115,118,164,165,190,274,276.ccls. and (shreshold\$3 or normali\$6) or (rate or chang\$3) or smooth\$2 or sobel) winormali\$6 82/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 near5 (rate or chang\$3)) with (threshold grad\$6 near5 (rate or chang\$3)) or smooth\$2 or sobel) 840/\$5.55,5.53,5.8-5.83.ccls. and (face or facia near chang\$3) or smooth\$2 or sobel) with (threshold or smooth\$4 or sanoth\$4 or smooth\$4 or saturation or sobel or threshold or normali\$6 or normali\$6 or normali\$6 or normali\$6 or sobels. or 348/\$.ccls. or 3 | maximum or white) near2 (intensity or brightness | | |
| 182/103,115,118,164,165,190,199,203,274,276.ccliame (grad\$5 or (color near (rate or chang\$3)) (threshold\$3 or normali\$6) (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and (grad\$5 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) (grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) (grad\$6 or (color near (rate or chang\$3)) or sm (grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) or sm (grad\$6 or (color near (rate or chang\$3)) or sm (grad\$6 near (rate or chang\$3) or smooth\$2 or sobel) winormali\$6) or smooth\$2 or sobel) winormali\$6 (grad\$6 near (rate or chang\$3)) with (threshold\$40/5.52,5.53,5.8-5.83.ccls. and (face or facia near chang\$3) or smooth\$2 or sobel) with (threshold or gradation or intesity or smooth\$4 or sate or gradation or intesity or smooth\$4 or normali\$6 | | | |
| threshold\$3 or normali\$6) (182/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and (182d\$\$ or (color near (rate or chang\$\$)) or sm (threshold\$3 or normali\$6) (182/\$103,115,118,164,165,190,199,203,274,276.ccl (182d\$\$6 or normali\$6) (182/\$103,115,118,164,165,190,274,276.ccls. and (182/\$103,115,118,164,165,190,274,276.ccls. and (192x)115,118,164,165,190,199,203,274,276.ccl or mani\$\$6) (192d\$\$6 near chang\$\$3) or smooth\$\$2 or sobel) with ormali\$\$6) (193d\$\$6 near chang\$\$3) or smooth\$\$2 or sobel) with (threshold\$\$115,118,164,165,190,199,203,274,276.ccl (192d\$\$6 near chang\$\$3) or smooth\$\$2 or sobel) with (threshold\$\$15,55,55,58-5.83.ccls. and (face or facia gradient or gradation or intesity or smooth\$\$4 or normali\$\$6 or normali\$\$6 or normali\$\$6 or sobel or threshold or normali\$\$6 or normali\$\$ | 190,199,203,274,276.ccls. and (face or facial) | USPAT; | 2003/10/06 17:55 |
| (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and (grad\$5 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) 382/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) 382/103,115,118,164,165,190,274,276.ccls. and (or (rate near chang\$3) or smooth\$2 or sobel) with (rate near chang\$3) or smooth\$2 or sobel) with (grad\$6 near5 (rate or chang\$3)) with (threshold\$40/\$5.2,5.53,5.8-5.83.ccls. and (face or facia near chang\$3) or smooth\$2 or sobel) with (threshold or smooth\$2 or sobel) with (threshold or smooth\$4 or normali\$6 or normali\$6 or normali\$6 or shorts or sobel or threshold or normali\$6 or shorts or sobel or threshold or normali\$6 or shorts or sobel or threshold or normali\$6 or shorts or such or (sold) or (|) or smoothaz or sober) with | g0454-c0 | |
| (grad\$5 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) 82/103,115,118,164,165,190,199,203,274,276.cc1 (grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) 82/103,115,118,164,165,190,274,276.cc1s. and (ormali\$6) 82/103,115,118,164,165,190,199,203,274,276.cc1 82/103,115,118,164,165,190,199,203,274,276.cc1 82/103,115,118,164,165,190,199,203,274,276.cc1 82/103,115,118,164,165,190,199,203,274,276.cc1 82/103,115,118,164,165,190,199,203,274,276.cc1 8340/5.52,5.53,5.8-5.83.cc1s. and (face or facia near chang\$3) or smooth\$2 or sobel) with (threshold or gradation or intesity or smooth\$4 or saturation or sobel or threshold or normali\$6 con facia norph\$3 or morphologic\$2 or ellipse or oval or (archs) or 348/\$cc1s.) and (archs) or 348/\$cc1s.) and (archs) or 348/\$cc1s.) and (archs) | ls. or 340/\$.ccls.) and (face or facial) same | USPAT; | 2003/10/06 17:56 |
| [threshold\$3 or normal1\$6] [82/103,115,118,164,165,190,199,203,274,276.cc] [grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) [82/103,115,118,164,165,190,274,276.ccls. and (ormali\$6) [ormali\$6] [82/103,115,118,164,165,190,199,203,274,276.ccl] [grad\$6 near5 (rate or chang\$3)) with (threshol) [grad\$6 near5 (rate or chang\$3)) or smooth\$2 or sobel) with (threshol) [gradation or sobel or threshold or normali\$6 | smooth\$2 or sobel) with | US-PGPUB | |
| \$82/103,115,118,164,165,190,199,203,274,276.ccl grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) \$82/103,115,118,164,165,190,274,276.ccls. and (ormali\$6) \$182/103,115,118,164,165,190,199,203,274,276.ccl sears (rate or chang\$3) or smooth\$2 or sobel) with (thresholdsrad\$6 near5 (rate or chang\$3) with (thresholdsrad\$6 near5 (rate or chang\$3)) with (thresholder chang\$3) or smooth\$2 or sobel) with (thresholder chang\$3) or smooth\$2 or sobel) with (thresholder chang\$3) or smooth\$2 or sobel) with (thresholder or gradation or intesity or smooth\$4 or saturation or sobel or threshold or normali\$6 or morph\$3 or morphologic\$2 or ellipse or oval or (archive or 348)\$, ccls. or 348,\$, ccls. or 340,\$20,\$20,\$20,\$20,\$20,\$20,\$20,\$20,\$20,\$2 | | | |
| (grad\$6 or (color near (rate or chang\$3)) or sm (threshold\$3 or normali\$6) 82/103,115,118,164,165,190,274,276.ccls. and (ormali\$6) 10 (rate near chang\$3) or smooth\$2 or sobel) with ormali\$6) 115,118,164,165,190,199,203,274,276.ccl 120,103,115,118,164,165,190,199,203,274,276.ccl 130,52,5.53,5.8-5.83.ccls. and (face or facial and orear chang\$3) or smooth\$2 or sobel) with (thresholds and (face or facial and orear chang\$3) or smooth\$2 or sobel) with (thresholds and orear chang\$3) or smooth\$2 or sobel or facial arear chang\$3 or smooth\$2 or short or gradation or intesity or smooth\$4 or saturation or sobel or threshold or normali\$6 or morph\$3 or morphologic\$2 or ellipse or oval or (anormali\$6 or sobels) or 348\$ | cls. and (face or facial) and | USPAT; | 2003/10/06 18:05 |
| (threshold\$3 or normali\$6) 82/103,115,118,164,165,190,274,276.ccls. and (ormali\$6) sormali\$6) 82/103,115,118,164,165,190,199,203,274,276.ccl 82/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 near5 (rate or chang\$3)) with (threshold and 5.52,5.53,5.8-5.83.ccls. and (face or facianear chang\$3) or smooth\$2 or sobel) with (threshold and 5.52,5.53,5.8-5.83.ccls. and (face or facianear chang\$3) or smooth\$2 or sobel) with (threshold are gradation or intesity or smooth\$4 or saturation or sobel or threshold or normali\$6 or morph\$3 or morphologi\$2 or ellipse or oval or (arch\$3.5.53,5.8-5.83.ccls. or 348/\$.ccls. | smooth\$2 or sobel) with | US-PGPUB | |
| 182/103,115,118,164,165,190,274,276.ccls. and (arate near chang\$3) or smooth\$2 or sobel) winormali\$6) 182/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 near5 (rate or chang\$3)) with (threshol) 340/5.52,5.53,5.8-5.83.ccls. and (face or facianear chang\$3) or smooth\$2 or sobel) with (threshol) 340/5.52,5.53,5.8-5.83.ccls. and (face or facianear chang\$3) or smooth\$2 or sobel) with (thresholds.52,5.53,5.8-5.83.ccls. and (face or facianardient or gradation or intesity or smooth\$4 or saturation or sobel or threshold or normali\$6 or morph\$3 or morphologic\$2 or ellipse or oval or (arch\$3 or | | | |
| or (rate near chang\$3) or smooth\$2 or sobel) wi lormali\$6) 382/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 near5 (rate or chang\$3)) with (threshol 340/5.52,5.53,5.8-5.83.ccls. and (face or facia near chang\$3) or smooth\$2 or sobel) with (thres 340/5.52,5.53,5.8-5.83.ccls. and (face or facia near chang\$3) or smooth\$2 or sobel) with (thres gradient or gradation or intesity or smooth\$4 or saturation or sobel or threshold or normali\$6 of morph\$3 or morphologic\$2 or ellipse or oval or (348/\$ccls. or 348/\$ccls.) and | l (face or facial) and (grad\$6 | USPAT; | 2003/10/06 18:17 |
| lormali\$6) 82/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 near5 (rate or chang\$3)) with (threshol) 840/5.52,5.53,5.8-5.83.ccls. and (face or facia) 140/5.52,5.53,5.8-5.83.ccls. and (face or facia) 140/5.52,5.53,5.8-5.83.ccls. and (face or facia) 140/5.52,5.53,5.8-5.83.ccls. and (face or facia) 15240/5.52,5.53,5.8-5.83.ccls. and (face or facia) 15340/5.52,5.53,5.8-5.83.ccls. and (face or facia) 15340/5.52,5.53,5.8-5.83.ccls. and (face or facia) 15340/5.ccls. or 348/\$.ccls. or 348/\$.ccls. and | with (threshold\$3 or | US-PGPUB | |
| \$82/103,115,118,164,165,190,199,203,274,276.ccl (grad\$6 near5 (rate or chang\$3)) with (threshol \$40/5.52,5.53,5.8-5.83.ccls. and (face or facia near chang\$3) or smooth\$2 or sobel) with (thres \$40/5.52,5.53,5.8-5.83.ccls. and (face or facia gradient or gradation or intesity or smooth\$4 o saturation or sobel or threshold or normali\$6 o morph\$3 or morphologic\$2 or ellipse or oval or (318/\$;ccls. or 348/\$;ccls.) and | | | |
| (grad\$6 near5 (rate or chang\$3)) with (threshol 340/5.52,5.53,5.8-5.83.ccls. and (face or facia near chang\$3) or smooth\$2 or sobel) with (thres 340/5.52,5.53,5.8-5.83.ccls. and (face or facia gradient or gradation or intesity or smooth\$4 of saturation or sobel or threshold or normali\$6 of morph\$3 or morphologic\$2 or ellipse or oval or (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and | scls. and (face or facial) and | USPAT; | 2003/10/06 18:20 |
| 440/5.52,5.53,5.8-5.83.ccls. and (face or facia near chang\$3) or smooth\$2 or sobel) with (thres 340/5.52,5.53,5.8-5.83.ccls. and (face or facia gradient or gradation or intesity or smooth\$4 o saturation or sobel or threshold or normali\$6 o morph\$3 or morphologic\$2 or ellipse or oval or (382/\$.ccls. or 348/\$.ccls. or 348/\$.ccls.) and | old\$3 or normali\$6) | US-PGPUB | |
| lear chang\$3) or smooth\$2 or sobel) with (thres 340/5.52,5.53,5.8-5.83.ccls. and (face or facia gradient or gradation or intesity or smooth\$4 of saturation or sobel or threshold or normali\$6 of morph\$3 or morphologic\$2 or ellipse or oval or (382/\$;ccls. or 348/\$;ccls.) and | cial) and (grad\$6 or (rate | USPAT; | 2003/10/06 18:21 |
| 340/5.52,5.53,5.8-5.83.ccls. and (face or facia gradient or gradation or intesity or smooth\$4 of saturation or sobel or threshold or normali\$6 of morph\$3 or morphologic\$2 or ellipse or oval or (382/\$;.ccls. or 348/\$;.ccls.) and | reshold\$3 or normali\$6) | US-PGPUB | |
| gradient or gradation or intesity or smooth\$4 o saturation or sobel or threshold or normali\$6 o morph\$3 or morphologic\$2 or ellipse or oval or (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and | cial) same (candidate or | USPAT; | 2003/10/06 18:22 |
| saturation or sobel or threshold or normalise o norph\$3 or morphologic\$2 or ellipse or oval or (382/\$.ccls. or 348/\$.ccls.) and (382/\$.ccls.) and (382/\$.ccls.) | l or bright\$4 or hue or | US-PGPUB | |
| <pre>norph\$3 or morphologic\$2 or ellipse or oval or (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and (382/\$.ccls. or 348/\$.ccls.)</pre> | or erod\$3 or erosion or | | |
| (382/\$.ccls. or 348/\$.ccls. or 340/\$.ccls.) and | or ellipse or oval or edge or bound\$3 or mosaic) | | |
| | and (face or facial or head) | USPAT; | 2003/10/07 09:15 |
| T) 7 | ow\$2 or less\$2 or smaller or unchang\$3 or below or | US-PGPUB | |
| under or threshold\$3 or smooth or smoothly) | | | |